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Substitute for form 1449A/PTO INFORMATION DISCLOSURE Complete if Known STATEMENT BY APPLICANT Application Number 09/852,968 Filing Date May 10, 2001 First Named Inventor CHAN, Eugene Y. Art Unit 1637 **Examiner Name** MUMMERT, Stephanie Kane (Use as many sheets as necessary) Docket No: LT00184.2 DIV Sheet

Examiner	Cite	Document Number	Publicatio	Name of Patentee or Applicant of Cited	Pages, Columns, Lines.
Initial *	No		n Date	Document	Where Relevant
					Passages or Relevant
					Figures Appear
	A1	US-6,087,095	07/2000	Rosenthal, A., et al.	
	A2	US-6,210,896	04/2001	Chan, Eugene Y.	
	A3	US-6,232,075	05/2001	Williams, John G.K.	
	A4	US-6,245,506	06/2001	Laugharn, J. A. Jr. et al.	
	A5	US-6,255,083	07/2001	Williams, John G.K.	
	A6	US-6,255,475	07/2001	Kwiatkowski, Marek	
	A7	US-6,309,836	10/2001	Kwiatkowski, Marek	
	A8	US-6,355,420	03/2002	Chan, Eugene Y.	
	A9	US-6,403,311	06/2002	Chan, Eugene Y.	
	A10	US-6,524,829	02/2003	Seeger, Stefan	
	A11	US-6,639,088	10/2003	Kwiatkowski, Marek	
	A12	US-6,780,591	08/2004	Williams, P., et al.	
	A13	US-6,818,395	11/2004	Quake, S., et al.	
	A14	US-6,908,736	06/2005	Densham, Daniel H.	
	A15	US-6,911,345	06/2005	Quake, S., et al.	
	A16	US-6,982,146	01/2006	Schneider, T.D., et al.	
	A17	US-7,037,687	05/2006	Williams, P., et al.	
	A18	US-7,105,300	09/2006	Parce, J., et al.	
	A19	US-7,169,560	01/2007	Lapidus, S., et al.	
	A20	US-7,270,951	09/2007	Stemple, D., et al.	
	A21	US-7,276,720	10/2007	Ulmer, Kevin	
	A22	US-7,279,563	10/2007	Kwiatkowski, Marek	
	A23	US-7,282,337	10/2007	Harris, Timothy D.	
	A24	US-7,297,518	11/2007	Quake, S., et al.	
	A25	US-7,462,449	12/2008	Quake, S., et al.	
	A26	US-7,482,120	01/2009	Buzby, Philip Richard	
	A27	US-7,491,498	02/2009	Lapidus, S., et al.	
	A28	US-7,501,245	03/2009	Quake, S., et al.	
	A29	US-7,593,109	09/2009	Ulmer, Kevin	
	A30	US-7,635,562	12/2009	Harris, T., et al.	

EXAMINER /Stephanie K. Mummert/ DATE CONSIDERED 02/09/2011

PTO/SB/08a (07-09)

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Initial *	No		n Date	Document	Where Relevant
					Passages or Relevant
					Figures Appear
	A31	US-7,645,596	01/2010	Williams, P., et al.	
	A32	US-7,666,593	02/2010	Lapidus, Stanley	
	A33	US-7,678,894	03/2010	Siddiqi, Suhaib	
	A34	US-7,767,400	08/2010	Harris, Timothy D.	
	A35	US-7,767,805	08/2010	Buzby, Philip Richard	
	A36	US-7,790,391	09/2010	Harris, T.D., et al.	
	A37	US-2005/0147992	07/2005	Quake, Stephen	
	A38	US-2005/0239085	10/2005	Buzby, Philip R.	
	A39	US-2005/0260609	11/2005	Lapidus, Stanley N.	
	A40	US-2006/0019267	01/2006	Quake, Stephen	
	A41	US-2006/0024711	02/2006	Lapidus, S., et al.	
	A42	US-2006/0046258	03/2006	Lapidus, Stanley N.	
	A43	US-2006/0263790	11/2006	Harris, Timothy	
	A44	US-2007/0099212	05/2007	Harris, Timothy	
	A45	US-2008/0032307	02/2008	Buzby, Philip R.	
	A46	US-2008/0096216	04/2008	Quake, Steven R.	
	A47	US-2008/0233575	09/2008	Harris, T., et al.	
	A48	US-2008/0213770	09/2008	Williams, Peter	
	A49	US-2009/0053705	02/2009	Harris, Timothy D.	
	A50	US-2009/0075252	03/2009	Harris, Timothy D.	
	A51	US-2009/0253141	10/2009	Quake, Steven R.	
	A52	US-2010/0143932	06/2010	Lapidus, Stanley	
	A53	US-2010/0173363	07/2010	Buzby, Philip R.	
	A54	US-2010/0203524	08/2010	Efcavitch, J. W., et al.	

EXAMINER /Stephanie K. Mummert/ DATE CONSIDERED 02/09/2011

PTO/SB/08a (07-09)
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Substitute	e for form 1449A	/PTO			
INFOR	RMATION	DISCLOS	JRE		Complete if Known
STATEMENT BY APPLICANT			ANT	Application Number	09/852,968
				Filing Date	May 10, 2001
				First Named Inventor	CHAN, Eugene Y.
				Art Unit	1637
				Examiner Name	MUMMERT, Stephanie Kane
(t	Jse as many she	eets as necessary)			
Sheet	3	of	4	Docket No: LT00184.2	2 DIV

FOREIGN	PATENT	DOCUMENTS				_
Examine r Initials*	Cite No	Foreign Patent Document	Publicati on Date	Name of Patentee or Applicant of cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures appear	T2
	B1	WO-90/13666	11/1990			
	B2	WO- 93/023564	11/1993			
	В3	WO-96/27025	09/1996			
	B4	WO 99/05315	02/1999			
	B5	WO-99/057321	04/1999			
	В6	WO-99/42611	08/1999			
	B7	WO-00/60114	10/2000			
	B8	WO-01/25480	04/2001			
	B9	WO-06/055521	05/2006			

OTHER I	OCUMEN	VTS NON PATENT LITERATURE DOCUMENTS	
Examin	Cite	Include name of the author (in CAPITAL LETTERS), title of the article (when	T2
er	No	appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.),	
Initials*		date, page(s), volume-issue number(s), publisher, city and/or country where published.	
		Amended Complaint filed 10/22/10 against Pacific Biosciences of California Inc., Life	
	C1	Technologies Corporation, Illumina, Inc., by Helicos Biosciences Corporation, and	
		supporting Exhibits 1-19	
		Answer and Counterclaims of Pacific Biosciences of California Inc., filed 11/8/2010 to	
	C2	Amended Complaint filed 10/22/10 against Pacific Biosciences of California Inc., Life	
		Technologies Corporation, Illumina, Inc., by Helicos Biosciences Corporation	
		Reply of Helicos Biosciences Corp. filed 12/2/10 to Answer of Pacific Biosciences of	
	СЗ	California Inc., filed 11/8/10 to Amended Complaint filed 10/22/10 against Pacific	
		Biosciences of California Inc., Life Technologies Corporation, Illumina, Inc., by Helicos	
		Biosciences Corporation	

EXAMINER /Stephanie K. Mummert/ DATE CONSIDERED 02/09/2011

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OTHER I	DOCUME	NTS NON PATENT LITERATURE DOCUMENTS	
Examin	Cite	Include name of the author (in CAPITAL LETTERS), title of the article (when	T2
er	No	appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.),	
Initials*		date, page(s), volume-issue number(s), publisher, city and/or country where published.	
		ALLEN, D., et al. Biochemistry "Resonance Energy Transfer Measurements between	
	C4	Substrate Binding Sites within the Large (Klenow) Fragment of Escherichia coli DNA	
		Polymerase I" published (1989) 28: 9586-9593	
	C5	FUNATSU, T., et al. FEBS Letters "Single molecular assay of individual ATP turnover by	
	Co	a myosin-GFP fusion protein expressed in vitro" (1997) 407: 235-238	
		FUREY, W. Scott, et al. "Use of Fluorescence Resonance Energy Transfer to Investigate	
	C6	the Conformation of DNA Substrates Bound to the Klenow Fragment"; (1998) 37: 2979-	
		2990	
	C7	HA, T., et al. Proc. Natl. Acad. Sci. USA "Single-molecule fluorescence spectroscopy of	
	07	enzyme conformational dynamics and cleavage mechanism" (1999) 96: 893-898	
		FUNATSU, T., et al. Letters to Nature "Imaging of single fluorescent molecules and	
	C8	individual ATP turnovers by single myosin molecules in aqueous solution" (1995) 374 (6):	
		555-559	
		TYAGI, Suresh Biochemistry "Proximity between Nucleotide/Dinucleotide and Metal Ion	
	C9	Binding Sites in DNA-Dependent RNA Polymerase from Escherichia coli" (1992) 31(28):	
		6447-6453	
	040	WEISS, Shimon Science "Fluorescence Spectroscopy of Single Biomolecules" (1999)	
C10	C10	283(5408): 1676-1683	
		WU, F., et al. "J. of Biological Chemistry "Fluorescence Resonance Energy Transfer	
	C11	Studies on the Proximity Relationship between the Intrinsic Metal Ion and Substrate	
		Binding Sites of Escherichia coli RNA Polymerase" (1987) 262(27):13147-13154	

EXAMINER /Stephanie K. Mummert/

DATE CONSIDERED

02/09/2011